

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
23 December 2004 (23.12.2004)

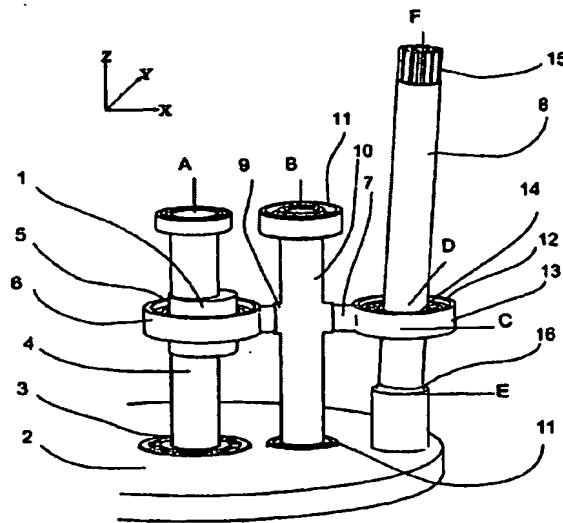
PCT

(10) International Publication Number  
**WO 2004/110697 A2**

- (51) International Patent Classification: **B23Q 1/00**
- (21) International Application Number: **PCT/TR2004/000033**
- (22) International Filing Date: **17 June 2004 (17.06.2004)**
- (25) Filing Language: **Turkish**
- (26) Publication Language: **English**
- (30) Priority Data:  
2003/00903 17 June 2003 (17.06.2003) TR  
2004/01403 15 June 2004 (15.06.2004) TR
- (71) Applicant and  
(72) Inventor: **ATAK, Mehmet Salih [TR/TR]; 552/2 Sokak  
No:1/1 Daire:4 Bornova, 35040 Izmir (TR).**
- (74) Agent: **DESTEK PATENT, INC.; Tophane Ortapazar  
Cad. No: 7 Osmangazi, 16040 Bursa (TR).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: **A DEVICE HAVING MULTIPLE DRIVING ARMS ROTATED CIRCULARLY WITHOUT AXIAL ROTATION AND THE METHOD OF THE SAME**



(57) Abstract: The present invention relates to a mechanism comprising a number of spindles capable to perform circular motion without an axial rotation drive; and more particularly to a mechanism, which is capable to perform operations such as cleaning, brushing, cutting, boring, abrading, etc. on even or uneven surfaces by means of auxiliary units supplied on terminus of such spindles, and where fluid supply can be made externally for such terminal units.

WO 2004/110697 A2